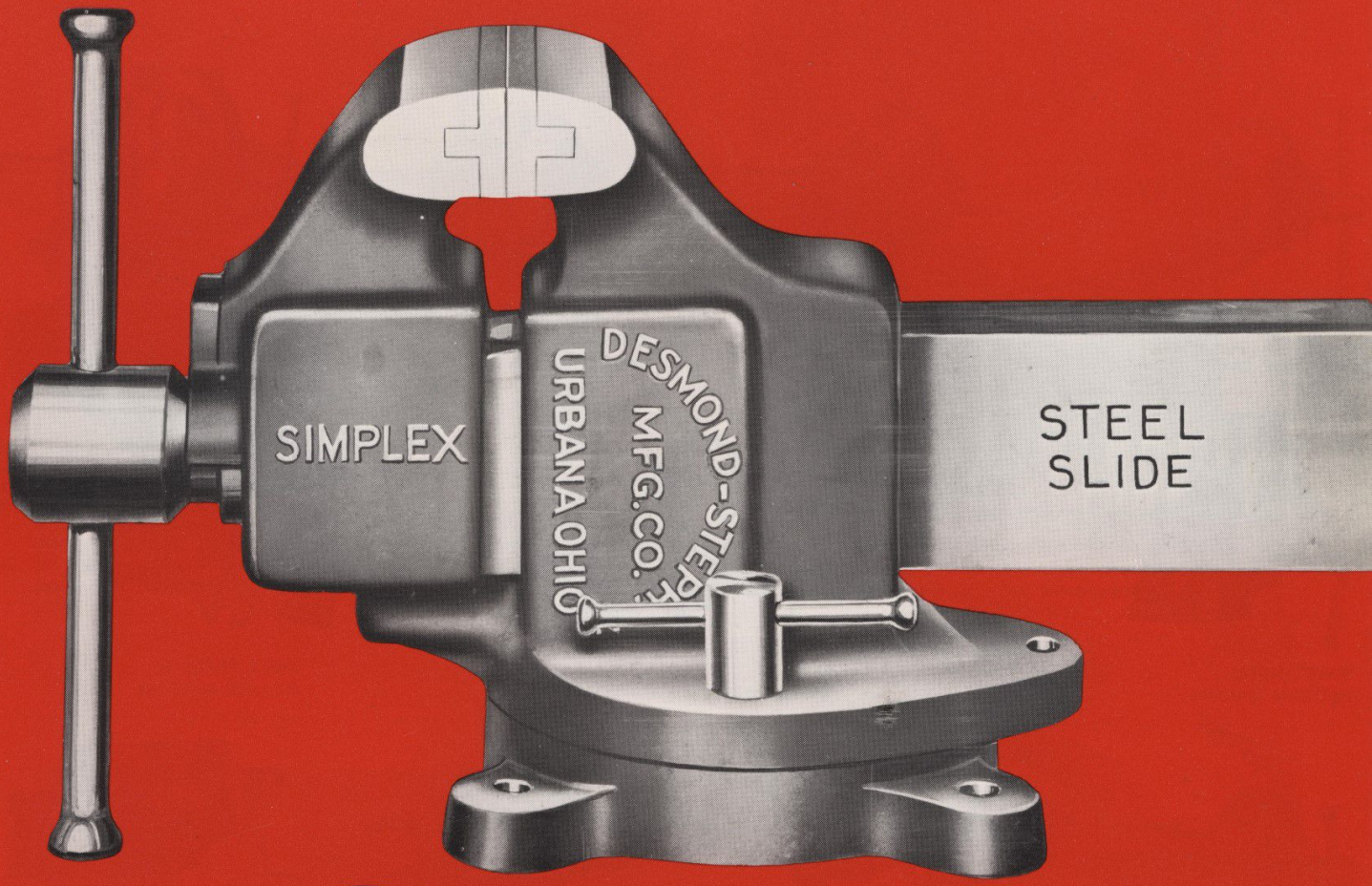
RIDGID
CATALOG
86



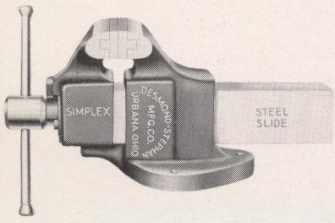
Simplex®

VISES

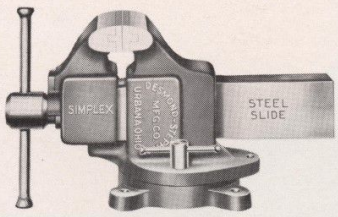
Another Line of RIDGID® Work-Saver Tools

The Ridge Tool Company • Elyria, Ohio • U.S.A.

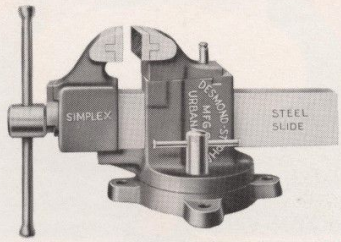
Greater strength / Longer service / Best value



MACHINISTS
STATIONARY BASE
PAGE 4



MACHINISTS
SWIVEL BASE
PAGE 5



MACHINISTS
SWIVEL BASE & JAW
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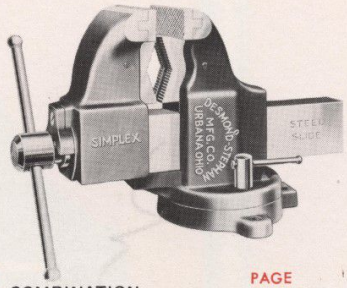
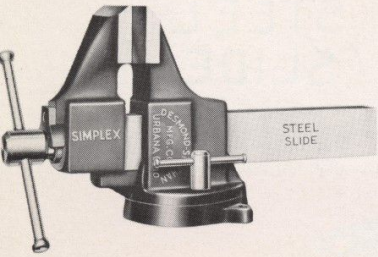
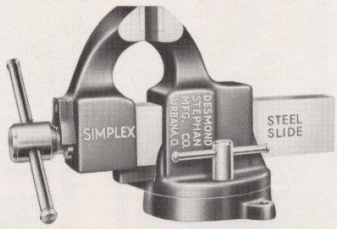


COMBINATION
BENCH & PIPE
PAGE 6



SHEET METAL
PATTERN MAKERS
PAGE 7



FILERS
SWIVEL BASE
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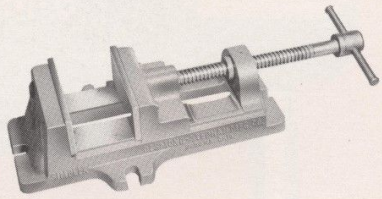
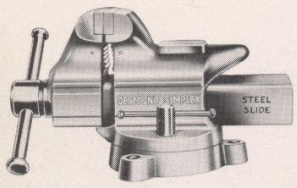
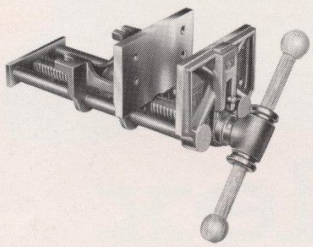


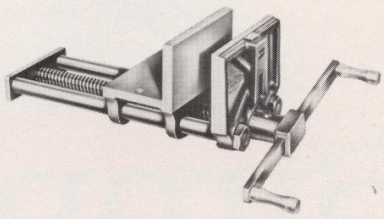
DRILL PRESS &
MILLING MACHINE
PAGE 8



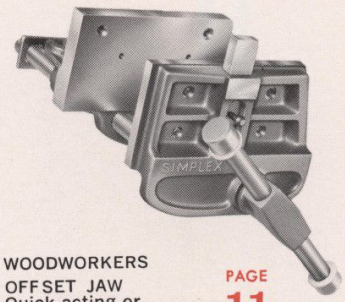
UTILITY VISES
PAGE 9



WOODWORKERS/wood
or tubular steel handles —
quick acting or continuous screw
PAGE 10



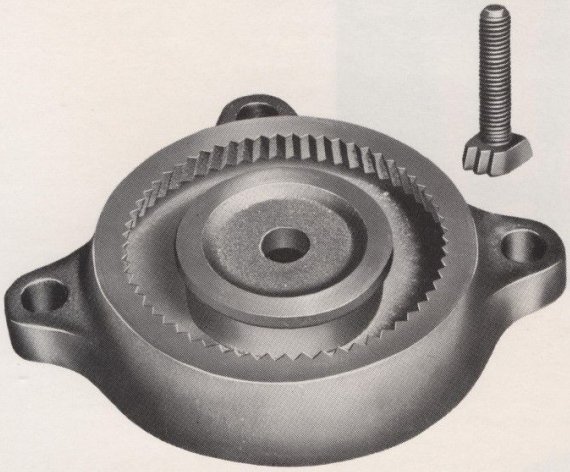
WOODWORKERS/steel
handle — Continuous screw
PAGE 10



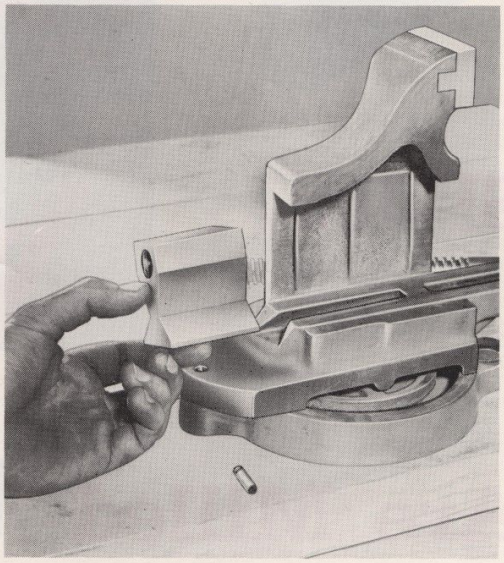
WOODWORKERS
OFFSET JAW
Quick acting or
Continuous screw.
PAGE 11

Simplex vises are available in one of the broadest, most complete quality lines available. A full range of sizes and types meets every requirement for service without compromise of materials or workmanship. Extra features have been added continually. Modern construction methods coupled with precise machining assure you that each vise component has extra strength. Every vise gives extra years of service with no premium in price. All vises meet rigid Federal Specifications.

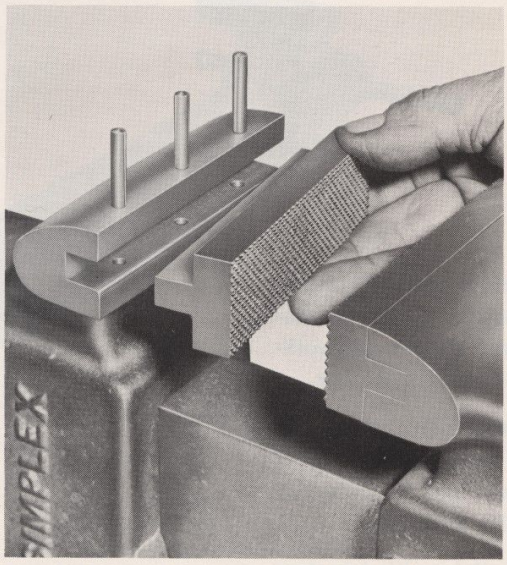
Plus Vise Features



SIMPLEX SWIVEL BASE — Forged steel corrugated clamp bolt when tightened fits mating corrugations in base to assure positive locking. On 6″ and 8″ jaw width vises two clamp bolts are used.

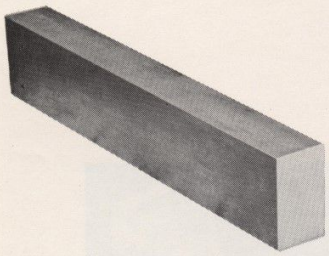


SIMPLEX VISE NUT — Alloy steel nut is stronger, more wear resistant than ordinary malleable nuts. This is an important Simplex advantage.

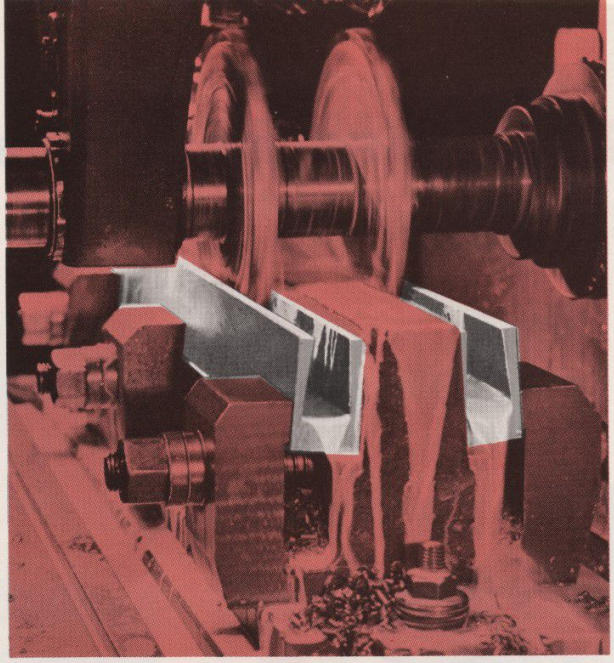


SIMPLEX JAW FACES — Properly hardened tool steel jaw faces are firmly pinned to jaws, yet easily removable for replacement, by driving the pins downward through the vise jaw with a center punch. Top-entering pins eliminate screw heads and holes in jaw faces, giving 100% gripping surfaces.

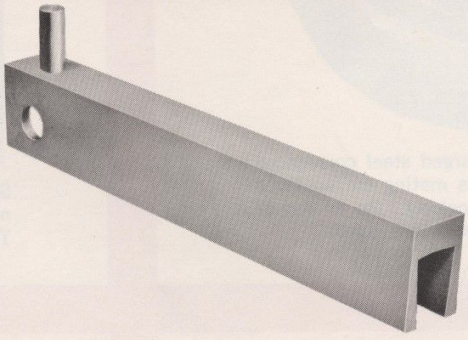
SIMPLEX ONE-PIECE HANDLE —Non-pinching handles have ends formed from the handle itself. There are no separate ends to loosen. Finishing is smooth for comfortable, safe gripping.



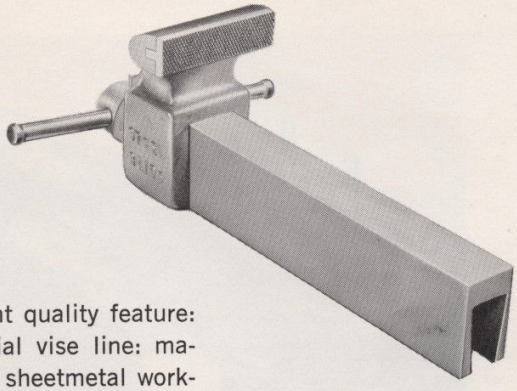
Slides



Are Milled



From Solid Steel

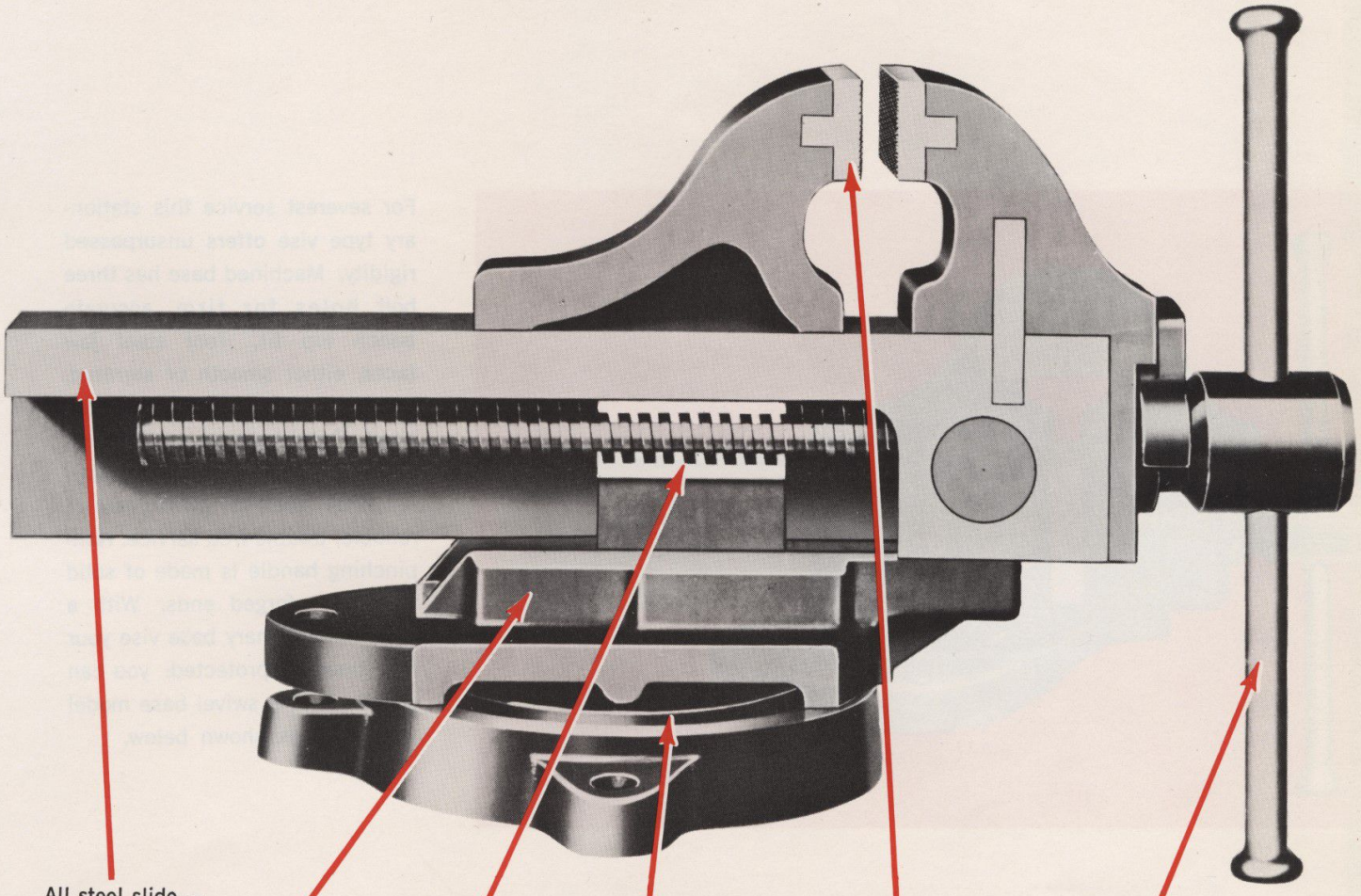


Only Simplex vises have this important quality feature: slides are **solid** steel. In the industrial vise line: machinists, combination pipe, filers, and sheetmetal workers vises have slides milled from a solid steel bar.

After milling, the front jaw is integrally cast on the slide, making a rugged, thoroughly dependable unit. It costs more to make a vise this way, but it costs you no more initially, and far less in the long run.

When the bar is sawed to length it is milled to provide a groove for the main vise screw and nut. Holes are drilled and a heavy steel pin inserted, around which the jaw is cast. Precision milling of the slot provides smooth sliding surfaces and good fit. Simplex steel slides are unbreakable — proven so in the most severe industrial use.

Greater strength / Longer service / Best value



All steel slide — unbendable, unbreakable.

Vise body — Extra heavy semi-steel, accurately machined and broached.

New alloy steel nut is stronger, longer wearing than a malleable nut.

Full 360° swivel base with positive mechanical lock. Larger models have twin locks.

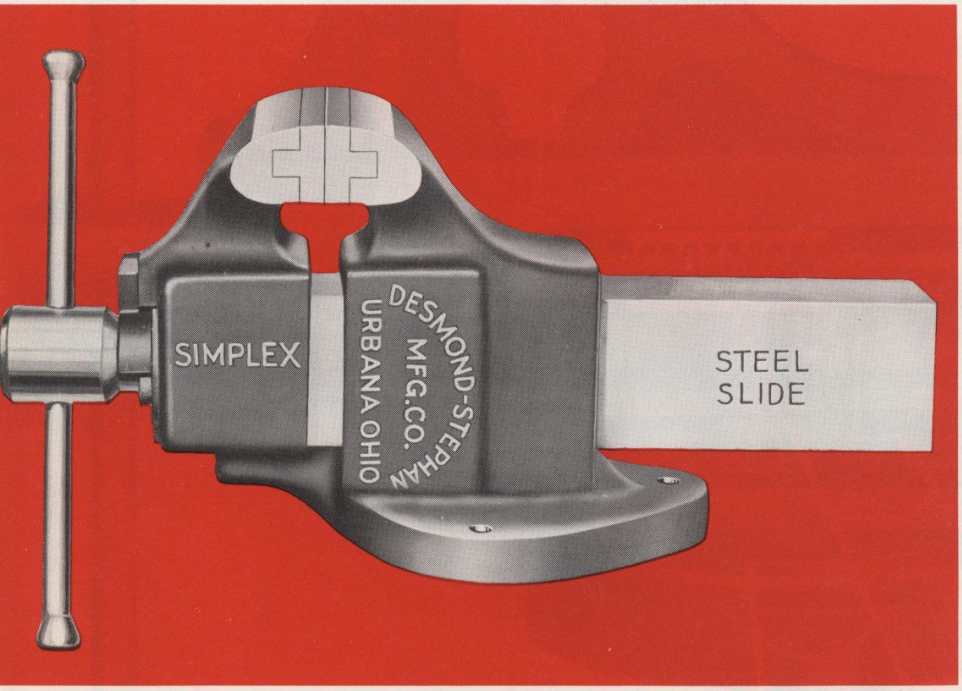
Tool steel jaw inserts are easily replaceable. No screw holes or heads on faces. Deep diamond serrations — Smooth faces also available.

Non-pinch handle is made from one piece of steel.

Guarantee

Simplex Vises are guaranteed for the life of the vise against defects in workmanship or material.

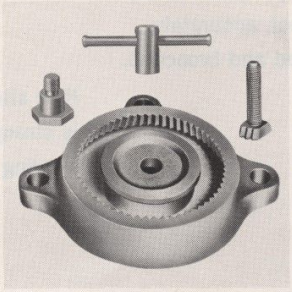
Simplex ®
Machinists Vise stationary base type



For severest service this stationary type vise offers unsurpassed rigidity. Machined base has three bolt holes for firm, accurate bench top fit. Tool steel jaw faces, either smooth or serrated, can be replaced easily when desired. Faces have no screw heads or holes to reduce gripping power. Alloy steel nut gives years of reliable, trouble-free service. Non-pinching handle is made of solid steel with forged ends. With a Simplex stationary base vise your investment is protected: you can convert it to a swivel base model with a kit as shown below.

vise no.		jaw width	jaw opening	weight lbs.
new	old			
31-PN	31-P	3″	4½″	22
33-PN	33-P	3½″	5″	30
41-PN	41-P	4″	6″	42
43-PN	43-P	4½″	7″	60
51-PN	51-P	5″	8″	72
61-PN	61-P	6″	10″	128
81-PN	81-P	8″	14″	230

SIMPLEX SWIVEL BASE KIT



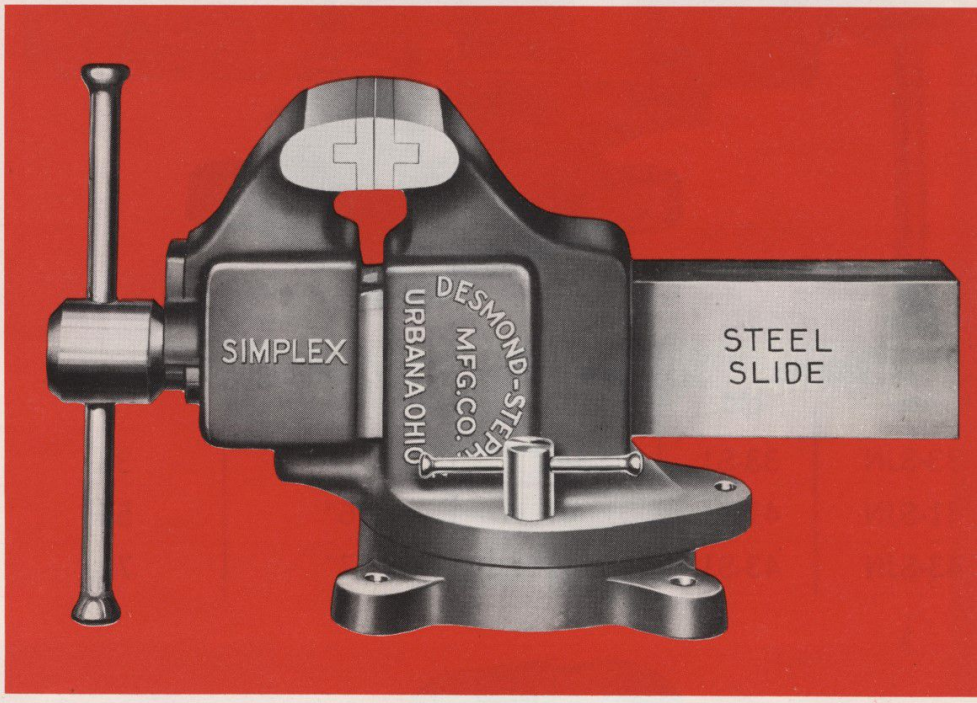
Kit consists of base, center bolt, lock lever and bolt and plug cap. Converts stationary base type vise to swivel base type vise in a minute.

Kit No.	Fits Vise No.
VK-31	31-PN
VK-33	33-PN
VK-41	41-PN
VK-43	43-PN
VK-51	51-PN
VK-61	61-PN

Packed one kit in a carton.

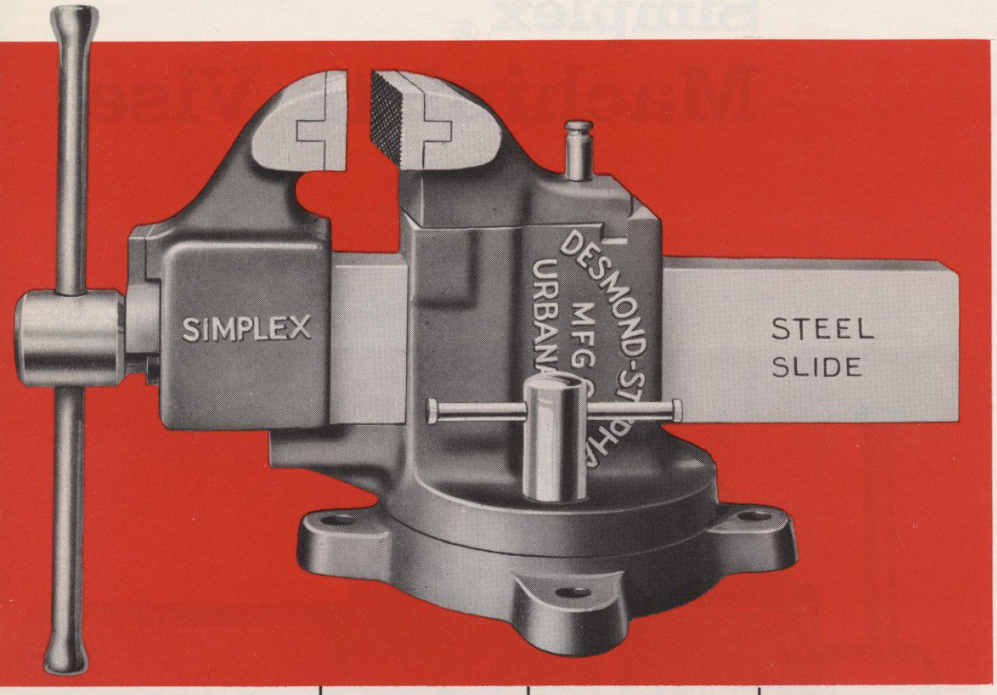
Simplex® swivel base type Machinists Vise

Maximum convenience and utmost strength are combined in Simplex swivel base vises. Full 360° rotation is provided with locking in any position when forged steel clamp bolt is tightened. Bolt meshes with teeth in base casting for mechanical rather than friction lock. On Models 61-SN and 81-SN two clamp bolts are used for extra strength. Long wearing tool steel jaws are easily replaceable. Alloy steel nut will last for years even with extreme use. If desired, swivel base models may be converted to stationary base types by removal of the swivel base assembly.



vise no.		jaw width	jaw opening	weight lbs.
new	old			
31-SN	31-S	3″	4½″	25
33-SN	33-S	3½″	5″	35
41-SN	41-S	4″	6″	52
43-SN	43-S	4½″	7″	70
51-SN	51-S	5″	8″	92
61-SN	61-S	6″	10″	145
81-SN	81-S	8″	14″	250

Simplex®

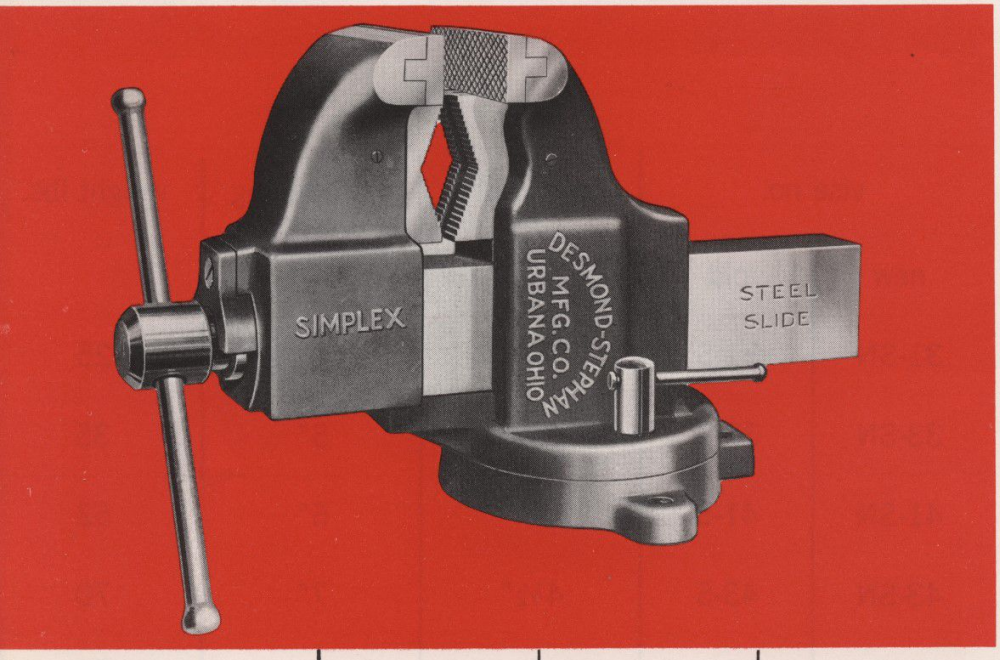


vise no. new	vise no. old	jaw width	jaw opening	weight lbs.
33-SJN	33-SJ	3½"	5"	38
41-SJN	41-SJ	4"	6"	55
43-SJN	43-SJ	4½"	7"	72

Machinists

swivel jaw & base

The most versatile vise for tool room use, this model is especially convenient for gripping tapered or irregularly shaped work pieces. Removal of the tapered locking pin permits the rear jaw to swivel for holding non-parallel and otherwise hard-to-hold pieces. With tapered pin in place the vise becomes a standard swivel base model with all of the outstanding features that have made Simplex vises the best quality value. Made in three popular sizes for every tool room requirement.



Combination

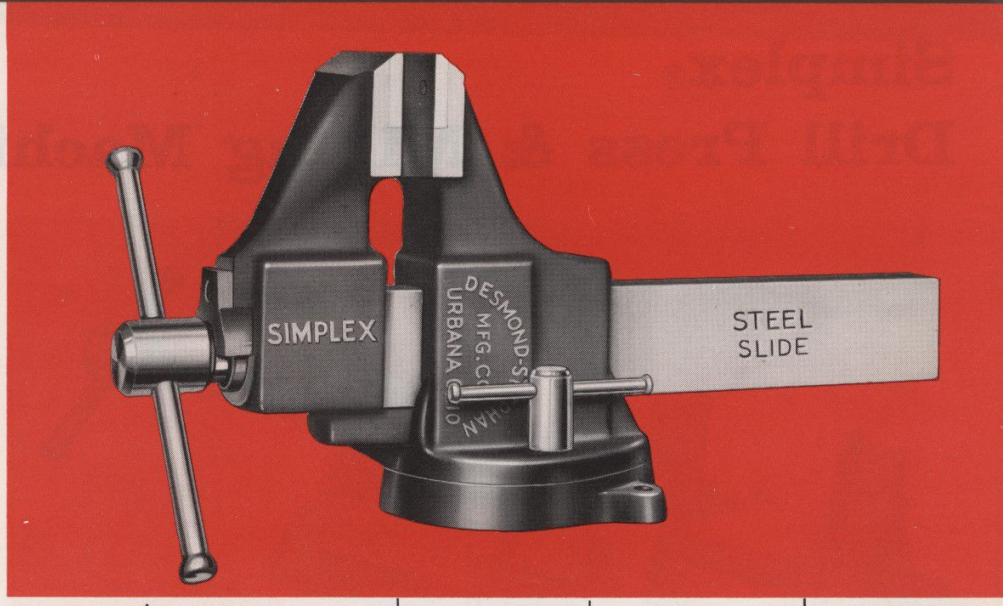
bench & pipe type

The exclusive Simplex steel slide is a doubly important feature of this vise because the jaw is deeper and extra strain is usually imposed on the vise in service. The slide is unbreakable, unbendable. Tool steel pipe jaws are accurately milled and carefully hardened to grip securely pipe or round sections as small as ⅛" diameter. Pipe jaws do not project beyond the jaw faces. In oil field and marine applications the Simplex combination vise offers best value where both machinists and pipe vises are required.

vise no. new	vise no. old	jaw width	holds pipe	weight lbs.	opens	jaw depth
33-CPN	33-CP	3½"	⅛" to 2½"	45	5"	4⅜"
43-CPN	43-CP	4½"	⅛" to 4"	82	6"	5½"
61-CPN	61-CP	6"	⅛" to 6"	165	10"	7"

Sheet Metal
workers vise

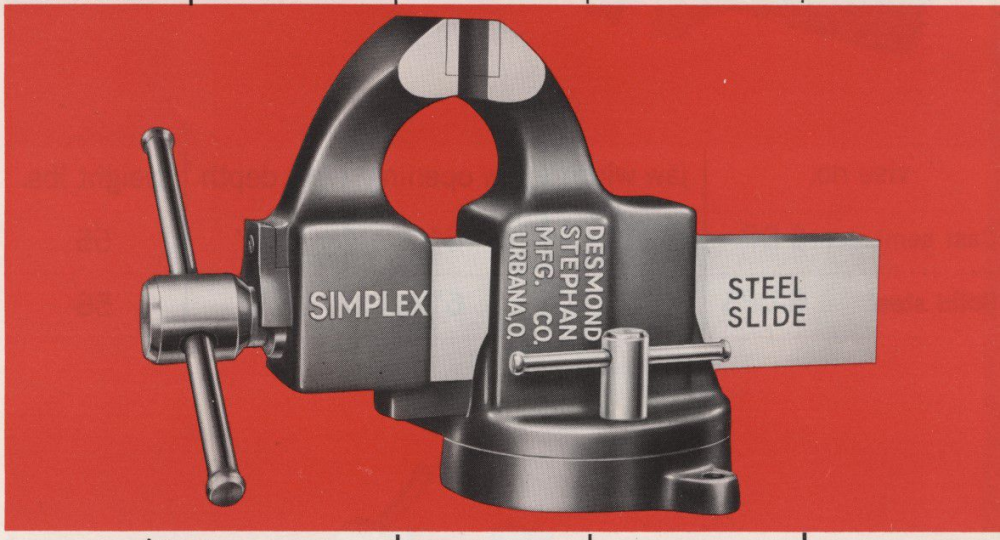
Greater jaw depth and slide length enable this vise to grip extra wide and deep work. The jaws have smooth, hardened steel inserts 2″ deep with a total jaw depth of 6½″. These large, smooth jaws grip sheet metal or wood securely without marring. Useful where maximum capacity is required. Handle won't pinch fingers.



vise no. new	vise no. old	jaw width	jaw opening	weight lbs.
42-CPSN	42-CPS	4½″	11″	70

Filers Vise
swivel base type

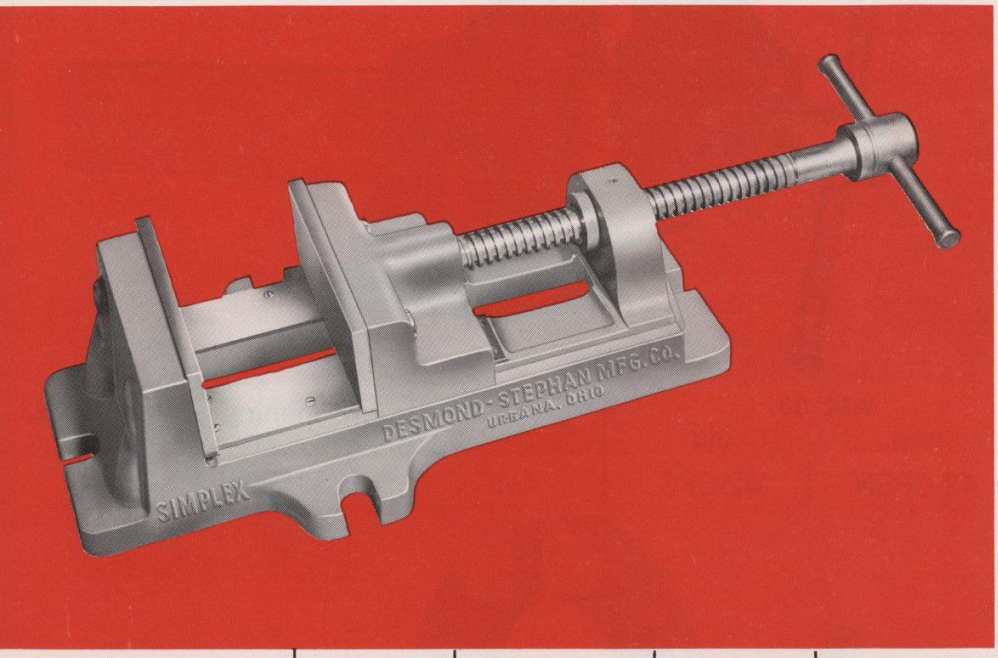
High arched jaws permit easy access to work from all sides in filing and other production operations. Hardened steel jaws have deep diamond serrations for secure gripping, unless smooth jaws are specified. The rugged steel slide and other quality features make the Simplex filers vise a long-lived investment.



vise no. new	vise no. old	jaw width	jaw opening	weight lbs.
41-FSN	41-FS	4″	6½″	48

See RIGID® Catalog
No. 7596
For A Complete Listing of Pipe Vises

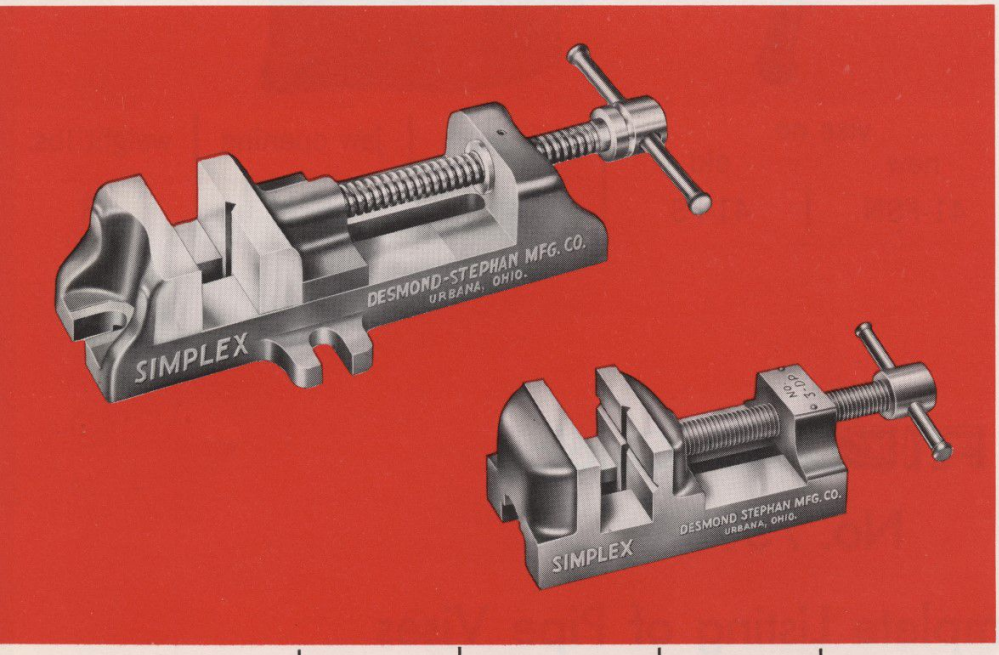
Simplex®
Drill Press & Milling Machine Vises



vise no.	jaw width	jaw opening	jaw depth	weight lbs.
Cast semi-steel 6-DP	6″	6″	2½″	55
Solid steel 6-DPS	6″	6″	2½″	56

heavy duty type

These are best for rugged milling and drilling. As an exclusive feature, hardened steel plates cover the work surface to prevent holes from being drilled in the body. Four extra heavy flanges are provided for fastening vise to table. Two slots are milled in the bottom of the base for key-way alignment. Main screw operates in easily replaceable bushing. Straight or offset type hardened steel jaw faces are available and easily replaceable. Overall length is 17″. Overall height 4⅜″. Regular semi-steel or solid steel models.



vise no.	jaw width	jaw opening	jaw depth	weight lbs.
3½ DP	3½″	4½″	1¾″	17
3 DP	3″	3″	1½″	6

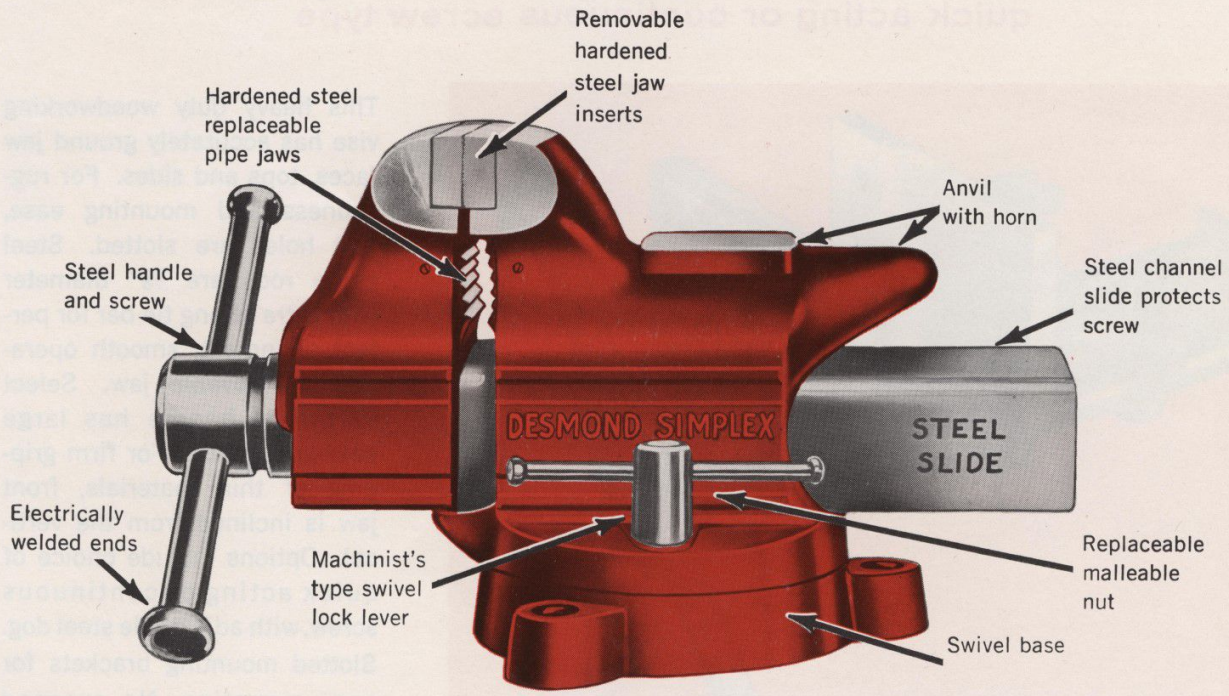
medium duty type

Long service for milling and drilling is featured in this low price model. Four flanges provided for fastening vise to table. Two slots milled in bottom for key-way alignment. Main screw bushing is replaceable. Movable jaw has "V" slot for holding round pieces. Height 2 1⁵⁄₁₆″.

light duty type

For light industrial and home shop use, this drill press vise opens 3″, has jaws 3″ wide. Features both vertical and horizontal "V" slots in movable jaw for holding round workpieces.

Simplex® Utility Vises



Simplex utility vises are the best low-price vise line made. They combine the advantages of a swivel base, pipe vise and anvil in one unit, and they feature the great strength of a steel channel slide. Highest quality materials and workmanship are used; low price is a result of efficient mass production.

Five sizes are offered: No. 300 is ideal for model making and home use, No. 350 is best for light-duty home use, Nos. 400 and 500 are ideal for medium duty garage, farm, shop and home use.

All sizes are ruggedly constructed with strong castings, hardened steel jaws and unbreakable steel slide. Finish is attractive high-gloss red enamel.

Compare the seven outstanding features of Simplex utility vises. Point for point they evidence the greatest value in the low price vise field.

1 Steel channel slide has extra width and depth to give greater strength than small bar slides. No more bent slide or damaged screw.

2 Square thread steel screw is protected by slide from dirt, chips, and blows, insuring long service.

3 Hardened steel jaw inserts are removable. All sizes have hardened steel serrated jaws for maximum grip.

4 Anvil with horn is useful for dozens of jobs including—bending rings, hoops, etc.

5 Nos. 350, 400 and 500 have hardened steel replaceable pipe jaws. Other sizes have integrally cast pipe jaws.

6 Swivel base provides maximum convenience in use. Lock bolt clamps vise securely, positively.

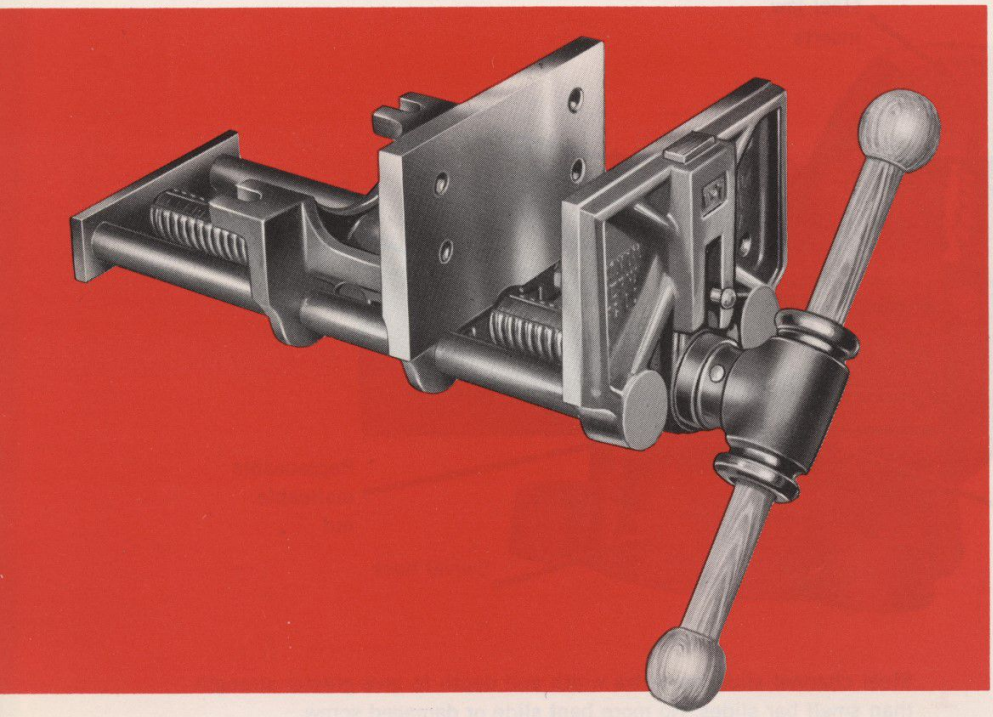
7 Nos. 350, 400 and 500 have replaceable malleable iron nuts.

vise no.	jaw width	jaw opening	weight lbs.
30*	3″	3¼″	11
300	3″	3¼″	12
350	3½″	4½″	19
400	4″	5″	25
500	5″	5″	30

*No. 30 Vise does not have swivel base.

Simplex® Woodworkers Vise

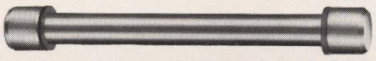
quick acting or continuous screw type



This heavy duty woodworking vise has accurately ground jaw faces, tops and sides. For ruggedness and mounting ease, bolt holes are slotted. Steel guide rods are 7/8" diameter with extra strong tie bar for perfect alignment, smooth operation of movable jaw. Select hardwood handle has large easy-grip knobs. For firm gripping of thin materials, front jaw is inclined from the vertical. Options include choice of quick acting or continuous screw, with adjustable steel dog. Slotted mounting brackets for easy mounting. No exposed guide rod nuts.

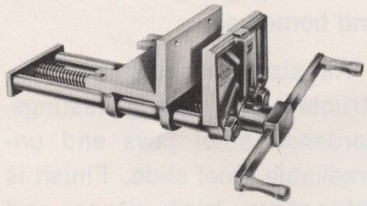
type	vise no.	jaw size	jaw opening	weight lbs.
quick acting type with dog in front jaw	W-7	4" x 7"	9"	30
	W-10	4" x 10"	12"	33
continuous screw with dog in front jaw	W-7-CD	4" x 7"	9"	28
	W-10-CD	4" x 10"	12"	35

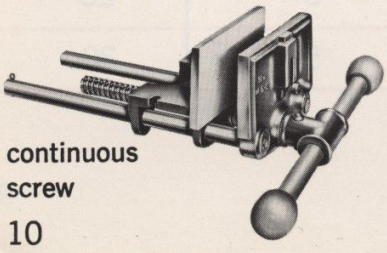
Tubular steel handles are furnished at extra cost if specified. To specify, add "T" after the vise number in the table at the left.



adjustable steel handle type

(as shown at right) adjustable steel handle with dog in front jaw	W-7-CDS	4" x 7"	9"	30
	W-10-CDS	4" x 10"	12"	35





continuous screw

Smaller size vise is strong, accurately machined for home shop use. Jaw faces, tops and sides are ground. Has steel dog in front jaw. Features sturdy continuous action screw. Select hardwood handle is smooth.

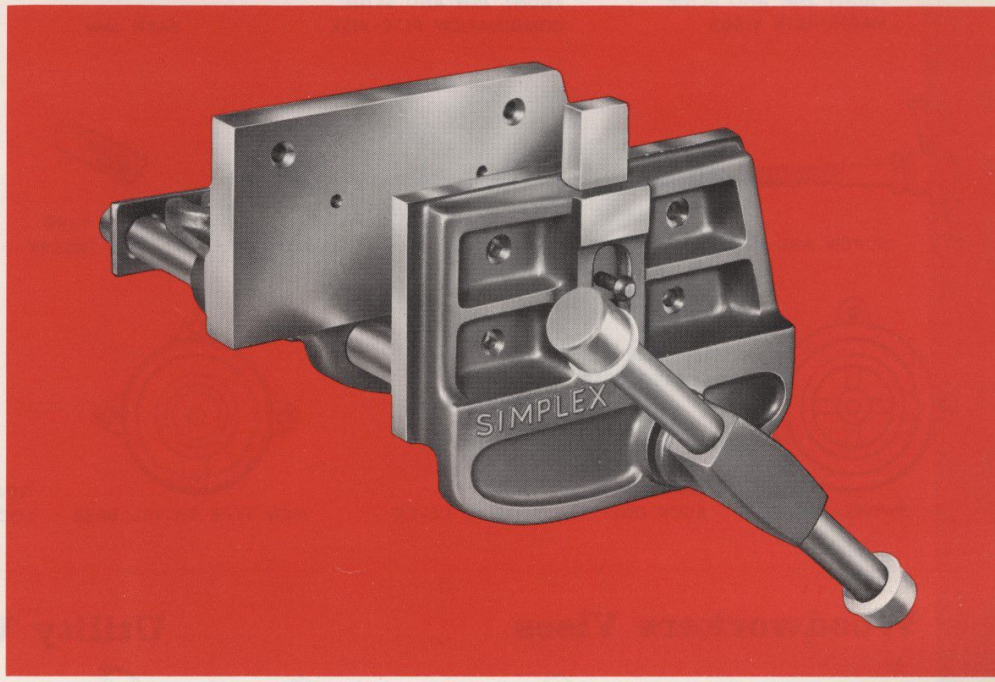
Economy Model

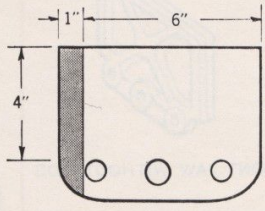
vise no.	jaw size	jaw opening	weight lbs.
W-6-C	3" x 6"	7"	10½

Simplex®

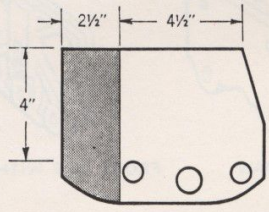
Sidewinder Vise extra capacity on left side

Sidewinder provides the economy of a 7" woodworkers vise with the holding capacity of a 10" vise. It provides 250% more clamping area on the left side where it is needed most. This brand new 7" vise has the guide rods and screw on the right side to give you 2½" of clearance on the left. An outstanding advantage is economy with compactness. Dog is standard. Choice of wood or steel handle. Tubular steel handle has nylon bumpers. Other important features include graphite bronze thrust bearing that never needs grease, slotted bolt holes for easy mounting. Choice of quick acting or continuous screw.





standard 7" woodworkers vise has only 1" clear

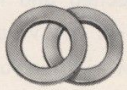


7" Desmond-Simplex Sidewinder has 2½" clear

template for easy mounting included with each vise

non-pinch nylon bumper washers

shear pin prevents damage



graphite impregnated bronze bearings

type	vise no.	jaw size	jaw opening	type handle	weight lbs.
quick acting	VL-7-RW	4" x 7"	9"	wood	28
quick acting	VL-7-RT	4" x 7"	9"	steel	29
continuous screw	VL-7-CW	4" x 7"	9"	wood	28
continuous screw	VL-7-CT	4" x 7"	9"	steel	29

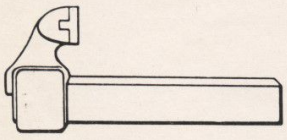
Repair Parts

how to order — Specify vise model number cast on side of back jaw. On woodworkers vises model number is cast on front jaw. Specify woodworkers vise type—continuous screw or quick acting. Specify part name shown below.

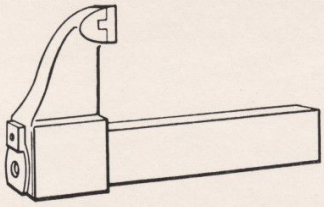
NOTE:

VISES OR VISE PARTS SHIPPED TO US MUST BE SHIPPED PREPAID.

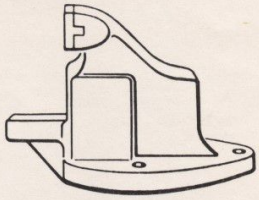
Machinists and Combination Vises



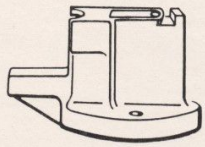
FRONT JAW AND SLIDE MACHINISTS VISES



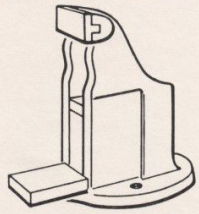
FRONT JAW AND SLIDE COMBINATION PIPE VISE



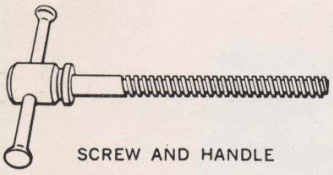
BACK JAW



BACK JAW SWIVEL JAW VISE



BACK JAW COMBINATION PIPE VISE

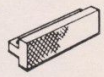


SCREW AND HANDLE

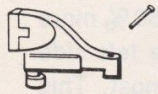
SCREW RETAINER

SCREW

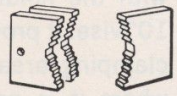
JAW INSERT



NEW TYPE JAW INSERT



SWIVEL JAW AND TAPER PIN

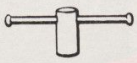


PIPE JAWS FOR COMBINATION PIPE VISE

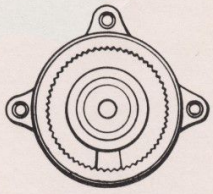
SWIVEL BASE

CENTER BOLT

SWIVEL LOCK BOLT



SWIVEL LOCKING LEVER



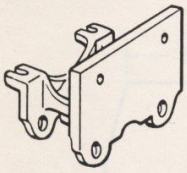
NEW TYPE SWIVEL BASE

NEW TYPE SWIVEL LOCK BOLT

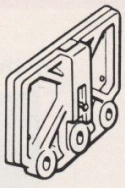
VISE NUT

NEW TYPE VISE NUT

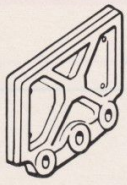
Woodworkers Vises



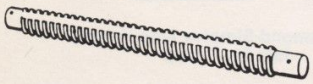
BACK JAW



FRONT JAW WITH DOG

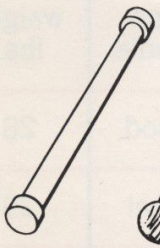


FRONT JAW WITHOUT DOG

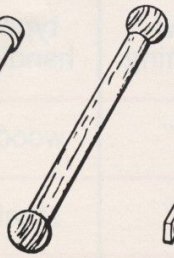


MAIN SCREW—QUICK ACTING

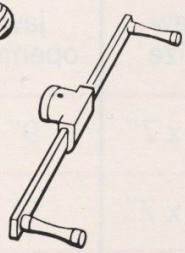
HALF NUT WITH SPRING



TUBULAR STEEL HANDLE



WOOD HANDLE

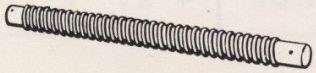


STEEL HANDLE

HALF NUT RETAINER

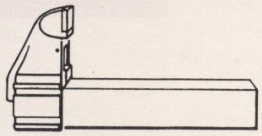
SCREW HEAD FOR WOOD OR TUBULAR STEEL HANDLE

MAIN NUT FOR CONTINUOUS SCREW TYPE



MAIN SCREW—CONTINUOUS

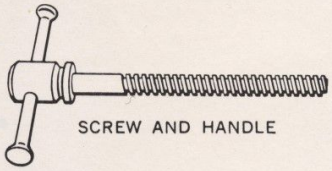
Utility Vises



FRONT JAW AND SLIDE

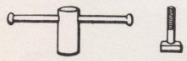
JAW INSERT

BACK JAW

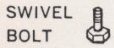


SCREW AND HANDLE

NO. 350, 400, 500 PIPE JAWS



LOCK LEVER AND BOLT



SWIVEL BOLT

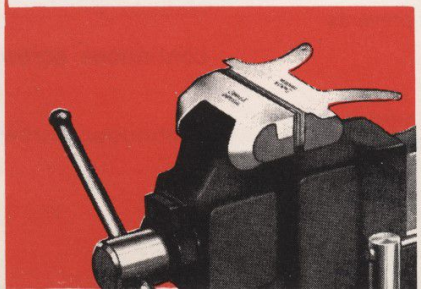
BASE FOR MODEL 300, 350

BASE RING FOR MODEL 400, 500

BASE PLATE FOR MODEL 400, 500

MAIN NUT FOR NO. 350, 400, 500

Jaw Covers



Copper faces prevent marring polished work. Easily attached and removed. Fits all vises. Specify jaw width in your order.

Vise Comparison Chart

Catalog number information compiled from latest manufacturers' sources.

Machinists Vises / stationary jaw — stationary base

jaw width	SIMPLEX new	SIMPLEX old	Athol	Columbian	Hollands	Morgan	Parker	Prentiss	Reed	Wilton	Yost
3″	31-PN	31-P	613	503	13	30	953	253	103R	300N	103
3½″	33-PN	33-P	613½	503½	13½	35	953½	253½	103½R	350N	103½
4″	41-PN	41-P	614	504	14	40	954	254	104R	400N	104
4½″	43-PN	43-P	614½	504½	14½	45	954½	254½	104½R	450N	104½
5″	51-PN	51-P	615	505	15	50	955	255	105R	500N	105
6″	61-PN	61-P	616	506	16	60	956	256	106R	600N	106
8″	81-PN	81-P	618	508	18	80	958	.....	108R	....	108

Machinists Vises / stationary jaw — swivel base

3″	31-SN	31-S	623	603	23	130	973	263	203R	300S	203
3½″	33-SN	33-S	623½	603½	23½	135	973½	263½	203½R	350S	203½
4″	41-SN	41-S	624	604	24	140	974	264	204R	400S	204
4½″	43-SN	43-S	624½	604½	24½	145	974½	264½	204½R	450S	204½
5″	51-SN	51-S	625	605	25	150	975	265	205R	500S	205
6″	61-SN	61-S	626	606	26	160	976	266	206R	600S	206
8″	81-SN	81-S	628	608	28	180	978	.....	208R	....	208

Machinists Vises / adjustable jaw — swivel base

3½″	33-SJN	33-SJ	643½	403½	43½	335	383½	453½	403½R	....	43½
4″	41-SJN	41-SJ	.....	.....	....	...	.....	.....	.....	....	....
4½″	43-SJN	43-SJ	644½	404½	44½	345	384½	454½	404½	....	....
6″	.....	.....	646	406	46	360	386	456	406R	....	78

Combination Pipe Vises

3½″	33-CPN	33-CP	323½X	203½	....	87	433½	353½	1C	C-0	31-C
4½″	43-CPN	43-CP	324½X	204½	53½	88	434½	354½	2C	C-1	32-C
5″	.....	.....	325X	205	54	288½	435	355	3C	C-2	33-C
6″	61-CPN	61-CP	326X	206	56	289½	436	356	4C	C-3	34-C

Sheet Metal Workers Vises

4½″	42-CPSN	43-CPS	424½	224½	264½	138	674½	.....	224½R	....	503

Woodworkers Vises

SIMPLEX	Abernathy	Columbian	Morgan	Parker	Prentiss	Reed	Richard Wilcox	Wilton	Yost
W-7	70D	7RDW	...	445-W	335-W	7QD	.....	63-W	405
W-7-T	...	7RDT	100-A	.....	.....	....	430S-1	63-A	...
W-10	80D	10RDW	...	446-W	336-W	10QD	430S-2	64-W	400
W-10-T	...	10RDT	200-A	.....	.....	....	.....	64-A	...
W-7-CD	S70D	7CDW	...	25-W	15-W	7D	630S-1	61-W	...
W-7-CDT	...	7CDT	10-A	.....	.....	....	.....	61-A	...
W-10-CD	S80D	10CDW	...	26-W	16-W	10D	630S-2	62-W	...
W-10-CDT	...	10CDT	20-A	.....	.....	....	.....	62-A	...
W-7-CDS	...	7CDS	210-A	25-S	15-S	7CD	.....	61-S	...
W-10-CDS	...	10CDS	220-A	26-S	16-S	10CD	.....	62-S	...
VL-7RW	...	V-7RDW	...	.....	.....	....	.....	67-W	...
VL-7RT	...	V-7RDT	...	.....	.....	....	.....	67-A	...
VL-7CW	...	V-7CDW	...	.....	.....	....	.....	66-W	...
VL-7CT	...	V-7CDT	...	.....	.....	....	.....	66-A	...
W-6-C	...	6CD	...	.....	.....	....	.....		

NOTES — Where letter "T" is shown, Simplex woodworkers vises have tubular steel handles instead of hardwood at extra cost. Use complete number to indicate handle preference.

Where letter "T" is shown, Columbian furnishes steel handles instead of hardwood handles.

Letter "W" indicates hardwood handles. On other models Wilton furnishes aluminum handles.

RIDGID®

Simplex Vises

We are delighted to add this top quality line of Simplex Vises to our ever-growing group of RIDGID Work-Saver Tools. All Vise production facilities will be moved to our Elyria plant. At that time, this famous old line of machinists and wood-working vises will assume their new name of RIDGID Simplex Vises.

You have our complete assurance that there will be no sacrifice in material quality or workmanship. As with all RIDGID tools, quality and use efficiency will be ever paramount. We will welcome your suggestions for design improvements or additions to the new RIDGID Simplex Vise line that you feel would help you sell more . . . profit more with these vises.

The Ridge Tool Company • Elyria, Ohio • U.S.A.

Printed in U.S.A.

RSV-64